

20030115.qrp v02_n801.qrl.20030115

Date: Wed, 15 Jan 2003 19:03:08 EST
From: qrp-l@Lehigh.EDU
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: QRP-L digest 2801

QRP-L Digest 2801

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- by "brian" <brian@iquest.net>
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by "brian" <brian@iquest.net>
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- 22) [144710] Re: FP AWARD WARC BANDS
by "Rod N0RC" <rod@n0rc.us>
- 23) [144711] Want: DOA SSTs & Cleaning out excess parts - List
by "Dave Redfearn" <n4elm@attbi.com>
- 24) [144712] NB6M mod's for the SMK-1
by "Jerry Ford" <benlightnd13@mchsi.com>
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by "Richard Johnson" <richard_johnson@credence.com>
- 26) [144714] RE: SA612 and AGC
by "Dave Fifield" <dave@redhotradio.com>
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by hamjoel@juno.com
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by "Mike Yetsko" <myetsko@insydesw.com>
- 29) [144717] 30 meter band is...well...it's OPEN!
by "Bill, N4QA" <n4qa@hotmail.com>
- 30) [144718] Re: Maxim gets the idea !
by "Trevor Jacobs" <kg6cyn@earthlink.net>
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by "Karl F. Larsen" <k5di@zianet.com>
- 32) [144720] Four State QRP Group Wednesday warble
by "David Bixler" <qrp@netins.net>
- 33) [144721] SA602AN output
by k4vib@att.net
- 34) [144722] Four State QRP Group Get-together Saturday
by "David Bixler" <qrp@netins.net>
- 35) [144723] Re: Feb 2003 QST
by David Hinerman <WD8CIV@worldnet.att.net>
- 36) [144724] TT2 Blunder - resolved
by "Franco, Nicholas J" <franco@bnl.gov>
- 37) [144725] FS K1-4 Band + KAT1
by "Ed Kessler" <aa3sj@arrl.net>
- 38) [144726] Re: Old-style silver mica wanted
by "Don Foster" <k5kw@geotec.net>
- 39) [144727] Wanted: KC2 manual
by "Chuck Adams, K7Q0" <k7qo@earthlink.net>
- 40) [144728] Re: Feb 2003 QST
by "Steve Lawrence" <Steve.Lawrence@ITWFEG.COM>
- 41) [144729] list appearance
by William R Colbert <w5xe@juno.com>
- 42) [144730] RE: Practical Joke on a Ham
by "N4LGH" <n4lgh@waveguide.us>
- 43) [144731] WELL

- by hamjoel@juno.com
- 44) [144732] Re: Feb 2003 QST
by "Dave Benson" <nn1g@earthlink.net>
- 45) [144733] QRP in Norway
by "Gary & Jean Hanson" <hansongr@uts.cc.utexas.edu>
- 46) [144734] Re: Harbor Freight Solar panel
by "Bob Tellefsen" <n6wg@earthlink.net>
- 47) [144735] FOX: NOUR's turn
by "Jim NOUR" <n0ur@attbi.com>
- 48) [144736] Re: QRP in Norway
by "Mark Andrews" <KE4IOF@KE4IOF.com>
- 49) [144737] RE: wap and warc, And Eating Crow
by Karl Kanalz <kkanalz@gcecispc.com>

Date: Tue, 14 Jan 2003 16:41:20 -0600
From: Richard Clem <clem.law@usa.net>
To: <qrp-1@Lehigh.EDU>
Subject: [144689] VHF SS Contest this weekend
Message-ID: <994HaNwpu0832S20.1042584080@uwdvg020.cms.usa.net>
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable

I operate QRP mostly to be able to bring along a small rig while travelling. =

When Mrs. Claus brought an FT-817 this Christmas, it became my main HF rig,
and also my first VHF rig (other than FM) since I got rid of the Gonset Communicator (which would be off topic, since I think it put out about 6 watts).

Anyway, one fun looking activity which involves portable QRP operation is the
VHF contest coming up this weekend. I along with Mrs. Claus, who happens to
be KC00IA, will be operating as a "rover" using the FT-817 and a 2-meter handheld.

Roving involves driving to various grid squares and working contacts with other stations (both fixed stations and other rovers). Since horizontal polarization is important on SSB and CW, I put together an antenna consisting
of PVC pipe that will go on top of the car. On top are dipoles for 432 and

144 MHz. Draping down is a wire inverted vee for 50 MHz.

I checked out the antenna on local nets last weekend. Even though the same antenna could not be heard by the 2-meter net control (about 70 miles away) from my home QTH, he was able to copy me well with the car parked at a high location. I also got good reports on 6 and 432, so we are set to go.

Other rovers generally use large monstrosities of yagis on top of the vehicle.

I'm going to try the more minimalist approach. My antenna looks weird, but not quite as scary as some of the others I've seen.

I'll report back after the contest and let you know how it worked. But for others who might be interested, please check out some of the following links:

<http://home.att.net/~bob.witte/rover.html>
<http://www.qsl.net/n9rla/>

Contest rules are in QST or:
<http://www.arrl.org/contests/rules/2003/01vhfss.html>

Also, if anyone has an FT-817 (or other VHF rig) sitting around and you are in or near Minnesota, Iowa, Wisconsin, or Nebraska, please listen for us this weekend. I have successfully run the 817 on all VHF bands using my HF dipoles, so you just might be able to work us. Our approximate schedule is posted at:

<http://www.nlrs.org/Rover-W0IS.htm>

Other local rovers in the MN area are posted at =

<http://www.nlrs.org/2003-01-RoverGrids.htm>

To interpret these schedules, you will need a map of the Grid Squares. A map of the MN area showing grid squares from which we'll be operating can be found at:

http://www.nlrs.org/index.htm#JanSS_Rover

For other areas, maps can be found at the ARRL web site, or by doing a google search for GRID SQUARE MAP.

73 & hope to see you on VHF!
Rick W0IS

Date: Tue, 14 Jan 2003 22:41:54 +0000
From: jacksonharbor@att.net
To: qrp-1@lehigh.edu
Subject: [144690] Maxim gets the idea !
Message-ID: <20030114224154.XLWV12483.mtiwmhc12.worldnet.att.net@mtiwebc19>

Gang -

Saw this link on the Piclist:

<http://www.maxim-ic.com/appnotes.cfm/appnote_number/946>

Isn't it mean of the Maxim engineer not to mention the word: Altoids ? ;)

Best Regards,

Chuck Olson, WB9KZY
Jackson Harbor Press
<<http://jacksonharbor.home.att.net/>>

Date: Tue, 14 Jan 2003 17:53:56 EST
From: n5ib@juno.com
To: qrp-1@Lehigh.edu
Subject: [144691] Harbor Freight Solar panel
Message-ID: <20030114.164858.12087.0.n5ib@juno.com>

This is a reprise of a post I sent back in August.....

-----snip-----

The local Harbor Freight store finally got in some of the #41144 5 watt panels at the \$35 price.

Specs: $V_{oc} > 22 \text{ V}$
 $I_{sc} > 450 \text{ mA}$
 $V_{op} = 13.5 \text{ V}$
 $P_{out} = 5 \text{ W}$
 $12.5" \times 18.5" \times 0.75"$

Comes in an aluminum frame with cover glass, internal series diode, hardware to attach to a flat surface, and two aluminum rods to use as legs to prop it up at an angle that can be varied. A cable with a molex-style connector on one end and battery clips on the other is supplied.

I put a wire-wound rheostat on it for a variable load. Following are the measurements, taken about 2 hours before local solar noon here in Baton Rouge, LA (latitude 31 N) with the Sun in a cloudless part of a partly cloudy sky. Little or no haze visually apparent. Panel positioned to be aimed directly at the Sun.

$V_{oc} = 21.5 \text{ V}$
 $I_{sc} = 420 \text{ mA}$

at $V_{out} = 13.72 \text{ V}$ (close as I could set it to 13.5V), $I = 230 \text{ mA}$,
for 3.16 W

I_{out}	V_{out}	P_{out}
50 mA	19.6 V	0.98 W
100 mA	18.0 V	1.8 W
150 mA	16.5 V	2.5 W
210 mA	14.3 V	3.0 W
260 mA	13.2 V	3.4 W
310 mA	11.0 V	3.4 W
370 mA	8.14 V	3.0 W
420 mA	0.39V	0.16 W

For my sky, doesn't quite make specs, particularly power, but perhaps Arizona would see better results. Putting my two homemade 8.5×11 panels in parallel will do as well or slightly better, but this one looks somewhat less flimsy than my lashup.

Usual disclaimers... no pecuniary interest in HF, etc.

72
Jim N5IB

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Date: Tue, 14 Jan 2003 17:59:08 -0500
From: "Mike Yetsko" <myetsko@insydesw.com>
To: <n4rs@netpath-rc.net>,
"Low Power Amateur Radio Discussion" <qrp-l@lehigh.edu>
Subject: [144692] Re: Smart Circuit in NiMH bat of Laptop -- CW mobile
Message-ID: <005401c2bc20\$8d7007a0\$0300a8c0@charter.net>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

> K5GQ/m
> code warrior..
> You didn't give a manufacture. I use a HP and they have an adapter that runs
> off the cig lighter. Works great. Tried an inverter first and you are right,
> way too much noise...Tom N4RS/M

MOST, but NOT all, HP laptops till about 2 years ago or so you could power DIRECTLY off of a 12v vehicle. Since the last 2 years, I don't know for sure. I've had OmniBook 530s, 540s, 600s, 800s, and 5000s series laptops, and I've run them ALL from a vehicle directly with a cheap cord from RS (remember to check polarity! On the HPs, the SHELL is +, NOT the tip! Also, you could get by with a 2.5A source up to the 600. The 5000s would not work reliably unless you had a 3.3A source. The 800s I'm not sure about.).

However, there is a VERY STRONG WARNING associated with this.

Some units 'split' the supply and that can cause a MAJOR problem is you're not careful. I think one of HPs did this as well.

For example, 12v in got split on initial entry to the laptop to -3 and +9. No big deal when the unit was operated by itself. But if you plugged another device in nearby and it's ground was at ground, and your laptops ground was at +3...

You can see the problem I hope.

I don't know what units did that, or even how prevalent they were. Just something to check on ALL laptops just to be safe, before you start tying them to other devices. In fact, check your other devices too before you start plugging them into your laptop. It wouldn't be surprising to

find
out that some devices aren't 'grounded' through the AC adapter and might
actually depend on isolation there!

Mike

Date: Tue, 14 Jan 2003 17:11:16 -0600
From: KD5NWA <KD5NWA@cbayona.com>
To: "Low Power Amateur Radio Discussion" <qrp-1@lehigh.edu>
Subject: [144693] Re: HB - 2N7000 Class E Amp
Message-ID: <5.2.0.9.0.20030114170334.00a91e88@pop.cbayona.com>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"; format=flowed

The 2N7000 has a Rsd resistance of 5 ohms with a 10 volt gate signal, that
is going to make it tough to hit 90% or higher efficiency, that is why two
of them in parallel give you higher efficiency, on the other hand for \$0.06
at Mouser there isn't much to complain about. If you need higher efficiency
at low power, you might be better off looking at something else, you would
be surprised at a metal 2n2222 running class E will do.

At 02:10 PM 1/14/2003, Glen Leinweber wrote:
>Steve,
> Am curious about your efficiency numbers.
>Lots of Class-E folks consider the "collector" or "drain" efficiency
>only - that's the DC power delivered to the final output stage
>only. You often see numbers around 90%.
>But overall efficiency is much lower, since the driver stage
>is working hard. Class E is efficient because final stage gain
>is low - it is an overdriven amp.
> So is your 70% - 75% efficiency an overall rig efficiency?
>That's very good if so! Or is it final stage efficiency?
>
>When the final amp is running above 90%, its very hard to
>make accurate efficiency measurements. The DC voltage
>and current are easy, accurate RF measurements are not.
>Am thinking that it'd be more accurate to stick a little
>thermistor onto the case of the final amp. Put a brick on
>the key (and a dummy load on the rig) and measure
>thermistor resistance once it settles. Measure DC voltage
>and current too.
> Then set up a variable DC bias to the final amp. Adjust
>till the thermistor reads the same resistance (same amount
>of heat), and re-measure DC voltage and current. Compare

>this with the previous measurement to find efficiency.
> Sorta like the finger test, but all calibrated.
>It is amazing to find the final amp at room temperature,
>with only a suggestion of extra heat.
>
>----- Original Message -----
>From: "Steven Weber" <kd1jv@moose.ncia.net>
>To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
>Sent: Tuesday, January 14, 2003 12:19 AM
>Subject: Re: HB - 2N7000 Class E Amp
>
>
> > I found that putting a second 2N7000 across the first one (parallel)
> > increases the efficiency and increases the power out. Can't find my notes
> > at the moment, but was something like 1.8W, 70% eff at 9V and 3+watts
> > (almost 4 actually) with 75% eff at 12V. This was with using the 6 cent
> > Fairchild 2N7000's. They don't even get warm to the touch!

Cecil
KD5NWA

Date: Tue, 14 Jan 2003 18:42:46 -0500
From: "Dana E Hager" <dehager@rcn.com>
To: <qrp-1@lehigh.edu>
Cc: <NJQRP@NJQRP.ORG>, "Eastern PA QRP Club" <n3epa@fast.net>
Subject: [144694] Info for SW40+ RIT mod
Message-ID: <006a01c2bc26\$a3df6160\$c46c3bd0@danadyojxcu0kx>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

After much searching I have only found one link for the SW40+ RIT mod:

Old board ?: <http://www.qsl.net/kf4trd/faq.html>

It is no longer being sold. If anyone has information or a schematic and could e-mail me, it would be greatly appreciated. Will gladly sent out a SASE and \$ for a photocopy of the kit instructions from Small Wonder if available.

Thanks,
Dana E Hager

Date: Tue, 14 Jan 2003 19:24:59 -0500
From: "Howard Kraus" <K2UD@adelphia.net>
To: <qrp-1@Lehigh.EDU>
Subject: [144695] Old-style silver mica wanted
Message-ID: <003901c2bc2c\$89d1b4c0\$35623018@buf.adelphia.net>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

For nostalgia, I would like to add an older 470pf silver mica capacitor (500V rating) to a tube transmitter circuit. This is the small axial rectangular package with EIA color coded dots on it. Anyone?

I've found some sources for this, but can't reach the minimum for an order.

I appreciate any help in finding a single cap. TNX all.

72

Howard Kraus, K2UD

Date: Tue, 14 Jan 2003 18:32:36 -0600
From: "Jay Bromley" <w5jay@alltel.net>
To: <qrp-1@Lehigh.EDU>
Subject: [144696] Sale: FT-817 accessories
Message-ID: <008401c2bc2d\$9affc9c0\$649b66a6@jay>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Hi Gang,

These items are surplus to my needs:

LDG Z11 with W4RT one touch for FT-817.

Mountain ops pack for the above with the extra padded cover.

Yaesu CT-62 interface cable for the FT-817.

All items are like new condition.

I would like to sell these as a package deal, but I will separate as a last resort. Let's deal!

Many thanks and 73 de jay..

Date: Tue, 14 Jan 2003 19:39:50 -0500
From: "Tom Palmer" <n1tp@swfla.rr.com>
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [144697] Re: FOX RE: N3BJ Prelim. Log
Message-ID: <000301c2bc2e\$9cff74e0\$6b2a0843@swfla.rr.com>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="Windows-1252"
Content-Transfer-Encoding: 7bit

Apparently the "Cheeseheads" team was skunked (Zero for 5")
in N3BJ's hunt.
This is good news for the "Swamp Rats" and the "Underdogs."
The "Pesky Texans" probably don't care too much because that
team may already have an insurmountable "First Place" lead.
Time will tell.

Tom, N1TP
Naples, Florida

Date: Wed, 15 Jan 2003 00:51:01 GMT
From: hamjoel@juno.com
To: fpqrp-l@mpna.com, qrp-l@Lehigh.EDU
Subject: [144698] FP AWARD WARC BANDS
Message-ID: <20030114.165108.27064.697814@webmail1.wlv.unttd.com>

WAS... WAC... DXCC... ALL THESE ARE NOT CONTESTS BECAUSE
NO ONE IS COMPETING AGAINST ANYONE...
ONE IS SIMPLY TRYING TO DO WHAT THE CERTIFICATE SAYS
HE/SHE DONE... NO PRIZES... NO COMPETITION
WAP, AS I UNDERSTAND IT ... HAS NO AWARDS, NO COMPETITION

WITH OTHER PIGGIES OR ANYONE ELSE...

AND A CERTIFICATE IS OFFERED TO THOSE WHO DO WHAT THE
CERTIFICATE SAYS.... THIS IS THE SAME AS WAS...WAC ETC...

THE FOX HUNT IS A COMPETITION, HAS TEAMS COMPETING AGAINST
EACH OTHER, PEOPLE AGAINST EACH OTHER... PRIZES FOR THE WINNER...

IN WAP U GET NO PRIZES ONLY A PAPER SAYING U WORKED SO MANY PIGGIES
AS W-A-S WOULD SAY U WORKED SO MANY STATES...

WAP... FOX HUNT... ORANGES AND APPLES... ENTIRELY DIFFERENT...
FOX HUNTING IS SERIOUS COMPETITION, THEREFORE A CONTEST THEREFORE NOT FOR THE WARC
BANDS...

WAP IS NO DIFFERENT THAN WAS, U COMPETE AGAINST NO ONE, U CANNOT WIN OR LOSE A
PRIZE... THERE IS NO PRIZE FOR BEING "FIRST" OR WORKING THE MOST OR ANYTHING...

IF THE ABOVE IS CORRECT THE WAP AWARD IS NO CONTEST BY ANY STRETCH OF THE
IMIGATION AND SHOULD CAUSE NO PILEUPS OR CLUTTERED UP BAND SPACE OR INTEFERENCE
WITH OTHER SERVICES....

COURSE if one wants to split hairs then one could argue that just making a
contact with someone is a competion with anyone else trying to work that person...

The FP SHRINK SUGGESTS THOSE UPSET WITH WAP AND WARP EITHER GET A LIFE, APPLY
FOR FREE COUCH TIME... OR SHOW ME WHERE THE COMPETITION IS..

KE1LA JOEL
IN MAINE
FP SHRINK

KE1LA JOEL
IN MAINE
FREEZIN

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Date: Tue, 14 Jan 2003 18:48:46 -0500
From: wkhibbert@juno.com
To: qrp-1@lehigh.edu
Subject: [144699] 20 Meter RockMite Final Went Pffft!
Message-ID: <20030114.195645.-512675.0.wkhibbert@juno.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Hi, Keith here in the Depths of the Great Bergen Swamp

Well, now having some real-world data, I can weigh in on the "Heat sink on the RockMite" question, and the answer is "Yes"...

At least it is on mine.

While working Lee, K8BHG/QRP down in Bluefield, WV, the output dropped, a warm silicon small wafted out of the case and the sidetone went kinda 'strange'.

When I lifted the hood, the case of the 2N2222 was a sort of grainy-looking silver-grey and it was way too hot to touch!. It's like the tin-plate on the case melted and resolidified.

I am going to replace the device and fabricate a heatsink from either flashing copper or aluminum flashing. The emitter resistor is still reading 10 ohms, there is continuity in L1, the collector choke so I should be OK.

If I get a repeat of this, I'll dust off the spectrum analyzer and take a look for spurii when running on the OCF wire. The SWR is <1.3:1 so I really don't expect that the load caused this interesting failure.

I just might take the opportunity to wind a higher current L1, put a heftier PA in there and see how much smoke I can put on the air. I had 300 mW when the PA quit.

So much fun, so littler time!

73, Wm. Keith Hibbert, WB2VUO, TC/WNY ARRL Section
President, Brockport Amateur Radio Klub
"My night light runs more power than my Rig!!!"

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Date: Tue, 14 Jan 2003 19:59:41 -0500
From: "Ron Polityka" <wb3aal@fast.net>
To: ". QRP-L" <qrp-l@lehigh.edu>
Subject: [144700] Final Day for 2003 QRP Contest Calendar
Message-ID: <01cf01c2bc31\$63d889b0\$91615cd1@wb3aal>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Hello,

Today, Jan. 15, 2003 is the final sale day for the 2003 QRP Contest Calendar for QRP'ers. No orders will be taken after 23:59 UTC.

If you have purchased one, I would like to thank you.

If you would like to purchase one, you need to do two things.

#1 - E-mail me asking me to reserve a copy for you.

#2 - Check www.n3epa.org for payment details. We do accept PayPal.

72 & Good DX
Ron de N3EPA
El Presidente'
n3epa@fast.net
www.n3epa.org

Date: Mon, 13 Jan 2003 14:12:00 -0800 (PST)
From: Nelson Winter <thenels@go.com>
To: qrp-1@Lehigh.EDU
Subject: [144701] Re: NTE 128 = 2n3553 ???
Message-ID: <1825383.1042495920768.JavaMail.thenels@gomailjtp01>
MIME-version: 1.0
Content-type: text/plain; charset=iso-8859-1
Content-transfer-encoding: 7BIT

The NTE128 is a general purpose NPN transistor. I use them in my Rockmites. The NTE cross reference for a 2N3553 is a NTE453. The NTE128 is a cross reference for the 2N3053.

The NTE online cross-reference can be found at:

[http://nte01.nteinc.com/nte/NTEExRefSemiProd.nsf/\\$\\$Search?OpenForm](http://nte01.nteinc.com/nte/NTEExRefSemiProd.nsf/$$Search?OpenForm)

or

n-teinc.com

-----Original Message-----

From: "Kevin L Anderson"<k9iua@juno.com>
To: "Low Power Amateur Radio Discussion"<qrp-1@Lehigh.EDU>
Date: Sun Jan 12 15:08:56 PST 2003
Subject: NTE 128 = 2n3553 ???

>I was at a nearby electronics parts store
>(part of a local chain-Warren Electronics).
>After checking their various cross-references,
>and using some of the cross-references I had
>brought with me, for a 2n3553 transistor,
>eventually they produced an NTE 128 for
>\$2.03/piece.

>
>Does this indeed match the 2n3553 for
>characteristics AND PINS? I bought one
>to replace a bad final in an OHR Sprint, so
>I need an exact pin-equivalent replacement.

>
>Thanks in advance for the information.

>Cheers/73,
>Kevin, K9IUA

>* * * * *

>Kevin Anderson, K9IUA, Dubuque, Iowa

>K9IUA (at) juno (dot) com Opinions all my own.

>* * * * *

>

>

>

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Date: Tue, 14 Jan 2003 20:39:14 -0500

From: "Alan Fryer" <N3BJ@hotmail.com>

To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [144702] FOX: N3BJ Final Log
Message-ID: <0E57R5kHvQMnIP2bzww0000d31f@hotmail.com>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

OK, here it is, the final version. Thanks for the corrections. Pray for conditions, this was one wierd outing....

UTC	Call	His	RST	My	RST	SPC	Name	Power
0201	N9NE	559	599	WI	Todd	5W		
0201	N1FN	559	559	CO	ET	5W		
0202	W0CH	559	559	MO	Dave	5W		
0202	K50T	559	559	WI	Larry	5W		
0203	W5USJ	559	559	TX	Chuck	5W		
0203	WA8NTA	559	559	CO	Dick	5W		
0204	AA50	559	559	LA	Vern	5W		
0205	W5TB	559	559	TX	Doc	5W		
0206	N0UR	559	579	MN	Jim	5W		
0207	N5IB	559	559	LA	Jim	5W		
0208	K4FB	559	579	FL	Paul	5W		
0209	K5JHP	559	559	TX	Bill	5W		
0209	W5YA	559	559	NM	Fred	5W		
0210	KJ6CA	559	579	CA	Bob	5W		
0211	K5ZTY	559	559	TX	Bill	5W		
0212	KK5LD	559	559	TX	Dan	5W		
0213	K5DW	559	559	TX	Don	5W		
0213	W0UFO	559	559	MN	Mert	5W		
0214	N0WX	559	559	MN	Mike	5W		
0214	K0FRP	559	599	CO	Al	5W		
0215	K5EOA	559	559	LA	Wayne	5W		
0216	N4BP	559	559	FL	Bob	5W		
0217	VE6EX	559	559	AB	Dan	5W		
0217	VE5RC	559	559	SK	Bruce	5W		
0218	VA6RF	559	559	AB	Earl	5W		
0218	W5YR	559	559	TX	George	5W		
0219	K0EVZ	559	579	ND	Doc	5W		
0219	W3CD	559	559	CA	Bob	5W		
0220	K5SR	559	559	TX	Dale	5W		
0221	AC7A	559	559	AZ	Tom	5W		
0222	AC5JH	559	559	OK	Tom	5W		
0223	KG6CYN	559	559	WI	Trev	5W	from the motel	
0224	AG0T	559	559	ND	Todd	5W		
0224	K0PC	559	559	MN	Pat	5W		
0224	K0UU	559	559	MN	Jeff	5W		
0225	KB7WW	559	559	OR	Art	5W		

0226 KD5CMN 559 559 TX Mike 5W
 0227 NQ7X 559 559 AZ Floyd 5W
 0228 KR0U 559 559 CO Tim 5W
 0229 WR50 559 559 TX Dave 5W
 0230 N5ZE 559 559 TX Lew 5W
 0231 K9IUA 559 559 IA Kev 5W
 0232 NM5M 559 559 TX Eric 5W
 0233 K6VNX 559 559 CA Arlen 5W
 0235 KK5NA 559 559 TX Joe 5W
 0236 N5WL 559 559 OK Bill 5W
 0238 N7XY 559 559 WA Bob 5W
 0240 KI0II 559 559 CO Ron 5W
 0244 KN5TX 559 559 TX Bill 5W
 0246 N4JIU 559 559 TX Bruce 5W
 0248 K50I 559 599 OK Tim 5W
 0249 K7TQ 559 559 ID Randy 5W
 0250 KR5C 559 559 TX George 5W
 0251 K5TCC 559 559 TX Doc 5W
 0255 N5EBD 559 559 TX Ken 5W
 0259 N2WW 559 559 CO Larry 5W
 0301 N0SG 559 559 CO Jason 5W
 0303 N4ROA 559 559 VA Dan 5W
 0305 K6MMC 559 559 CA Mike 5W
 0307 VE6JAZ 559 559 AB Rob 5W
 0309 W5KDJ 559 559 TX Wayne 500 mW
 0311 K5DI 559 559 NM Karl 5W
 0313 AA5TA 559 559 TX Larry 5W
 0315 W5LGO 559 569 OK Kent 50W
 0317 NN5E 559 559 TX Vern 5W
 0318 W4NJK 559 559 CA Charlie 5W
 0324 N0RC 559 559 CO Rod 5W
 0328 K1KID 559 559 MA Carl 5W
 0333 N1TP 559 339 FL Tom 5W
 0338 KC9LC 559 559 VA Randy 5W
 0343 AL0A 559 559 ME Greg 1W
 0345 AE0CW 559 549 CO Jess 5W
 0348 KQ5U 559 559 TX Terry 5W
 0351 K5TR 559 599 TX George 20 mW, not 50 mW
 0352 WU9F 559 559 WI Terry 5W
 0352 N7CQR 559 559 OR Dan 5W
 0354 N5YFC 559 559 LA Wayne 5W
 0356 KL7FDQ 559 559 MT Wayne 5W
 0357 W0PWE 559 599 IA Jerry 5W
 0359 KJ7HX 559 559 OR Jerry 5W
 --- K9DC Fox --- --- ---
 --- N3BJ Fox --- --- ---

Alan, N3BJ

Bent Mountain, VA

Date: Tue, 14 Jan 2003 21:03:35 -0500
From: Dave Gingrich K9DC <Dave@dcg.org>
To: Low Power Discussion <qrp-l@Lehigh.EDU>
Subject: [144703] FOX: K9DC Log first pass
Message-ID: <8E127F54-282D-11D7-BA14-000393C78314@dcg.org>
Mime-Version: 1.0 (Apple Message framework v551)
Content-Type: text/plain; charset=US-ASCII; format=flowed
Content-Transfer-Encoding: 7bit

Well...

Here it is from Jan-9 Indiana Fox. Things were moving along fairly nicely until about 0245 then the curtain came down.

0201 K5E0A	559	LA	Wayne	5W
0202 K5DW	559	TX	DON	5W
0202 K4FB	559	FL	Paul	5W
0204 AA50	559	LA	Vern	5W
0204 VE5RC	559	SK	Bruce	5W
0205 K5OI	559	OK	Tim	5W
0206 K5DI	559	NM	Karl	5W
0207 W5YR	559	TX	George	5W
0207 K0FRP	599	CO	Al	5W
0208 K3IU	559	PA	Ken	5W
0209 W5USJ	559	TX	Chuck	5W
0209 NM5M	559	TX	Eric	5W
0210 N4BP	559	FL	Bob	5W
0212 K5JHP	559	TX	BILL	5W
0212 N5IB	559	LA	JIM	5W
0213 VE6EX	559	AB	DAN	5W
0214 W5TB	559	TX	DOC	5W
0215 K5ZTY	559	TX	BILL	5W
0216 KK5LD	559	TX	DAN	5W
0217 N1FN	559	CO	ET	5W
0218 K0EVZ	559	ND	DOC	5W
0219 AC5JH	559	OK	TOM	5W
0220 AG0T	559	ND	TODD	5W
0221 KB8RWW	559	OR	ART	5W
0222 K5SR	559	TX	DALE	5W
0223 VA6RF	559	AB	EARL	5W
0224 N5ZE	559	TX	LEW	5W
0225 NQ7X	559	AZ	FLOYD	5W
0226 KR0U	559	CO	TIM	5W
0228 N1TP	559	FL	TOM	5W

0228	K4BYF	559	FL	JACK	3W	
0229	KC1FB	559	CT	JIM	500mw	
0230	WA8NTA	559	CO	DICK	5W	
0231	KD5CMN	559	TX	MIKE	5W	
0232	N7XY	559	CA	BOB	5W	
0233	W5KDJ	559	TX	WAYNE	600mw	
0234	WR50	559	TX	DAVE	5W	
0234	VE7HHH	559	BC	BLAIR	5W	
0235	KI0II	579	CO	RON	1W	
0237	K6MMC	559	CA	MIKE	5W	
0240	K6VNX	559	CA	ARLIN	5W	
0242	N0RC	599	CO	ROB	5W	
0245	K7TQ	559	ID	RANDY	5W	
0253	W2RBA	599	NY	JOE	5W	
0254	VE4WI	559	MB	CRAIG	5W	
0255	W9XU	559	WI	LON	5W	
0257	N0SG	559	CO	JASON	5W	
0258	N4ROA	559	VA	DAN	5W	
0300	N2WW	559	CO	LARRY	5W	
0304	VE6JAZ	559	AB	ROB	5W	
0308	WA9TZE	339	WI	JIM	5W	
0310	K1KID	559	MA	CAROL	4W	
0314	AC7A	559	AZ	TOM	5W	
0327	AL0A	559	ME	GREG	2W	
0339	VA6MJT	559	AB	MIKE	5W	
0343	N0EK	559	ND	ED	2W	
0346	W2XN	559	FL	FRED	5W	
0346	N7CQR	559	OR	DAN	5W	
0357	NN1F	559	NH	ARON	4W	
0400	N3BJ					
0400	K9DC					

=====

Dave Gingrich, K9DC
Indianapolis, Indiana USA
Dave@dcg.us

=====

Date: Wed, 15 Jan 2003 02:40:16 +0000
From: Arthur Moe <kb7ww@easystreet.com>
To: qrp <qrp-1@Lehigh.EDU>, UDOGS <udogs@w0ch.com>
Subject: [144704] Original style Tuna Tin on the air
Message-ID: <3E24CA10.B06F873E@easystreet.com>
MIME-Version: 1.0

Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

I rescued an Original style Tuna Tin from E-Pay. It's has arrived and I now have it on the air. I will be on calling CQ tonight and when ever I have some spare time Please look for me I have rocks on 7041, 7042, and 7045. The WM-1 indicates 250 millawatts.

Art
KB7WW

Date: Wed, 15 Jan 2003 02:47:34 GMT
From: hamjoel@juno.com
To: fpqrp-1@mpna.com, qrp-1@Lehigh.EDU
Subject: [144705] wap and warc
Message-ID: <20030114.184740.27064.699410@webmail1.wlv.unttd.com>

Was just informed there are prizes for wap... makes it a contest
not for warc bands...

sry I did not kneaux about the prizes... as that makes it a contest cut and
dry...

however iffing anyone wants to swap fp or qrp1 or qrp1parci numbers just to
achieve a personal goal (no contest) ah be happy to swap with u as that would be
in line with the rules and the spirit of the rules...

U kneaux it's ban a few days since ah last ate crow... an't that bad
once u get used to it... oh well, on to utter things....

still trying to fit my antenna into the space I have... anyone want to do one
of them computer analysis of a shortened version ah is thinking about?

oh, don't aver been afraid to update ur information, it helps get to the
correct understanding of sumthin... even iffing I was mistaken...

As I asked... someone showed me whare ah was wrong...and so quickly too...
ke1la joel

KE1LA JOEL
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Date: Tue, 14 Jan 2003 18:56:54 -0800
From: Wayne Burdick <n6kr@elecraft.com>
To: la3za@qsl.net
Cc: qrp <qrp-1@lehigh.edu>
Subject: [144706] Re: SA612 and AGC
Message-ID: <3E24CDE7.91BDEA1D@elecraft.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Sverre wrote:

"One thing I have noticed is that both the Norcal NC20 and the Elecraft K1 apply AGC control to the input of the SA612/602 so that the DC bias is decreased for strong signals. This is despite what the data sheet says: "Pins 1 and 2 can be used interchangeably, but they should not be DC biased externally"

Hi Sverre,

I first used this technique quite a while ago in the Wilderness Radio SST transceiver design. Dave Fifield & co. then decided to try it in the NC20, with good success.

The application note is referring to the fact that, normally, the DC bias at these pins should not be changed--the part is optimally biased internally. But I discovered that the DC bias could be changed to effect gain control, if you're aware of the limitations (see below). The other reason for externally changing the bias is when you're using the chip as a balanced modulator. In that case a large-value trim pot with its wiper to ground can be used to fine-tune the balance of the part (see the Elecraft KSB2 schematic, for example).

In the SST case, I used an LED as both the signal strength indicator and AGC detector as a way to reduce parts count. The LED is driven from the audio output, and when it becomes forward biased (at about 1.4 V), it starts to pull the DC bias voltage at pins 1 and 2 of the NE602/NE612 (the product detector) lower, reducing the gain of the input differential pair. This does increase IMD, eventually, but any distortion products are completely undetectable in practice. I haven't measured the AGC range, but it's probably in excess of 60 dB.

It's important to tie the two pins together with an RF choke to maintain the same DC voltage on both pins and hence good balance. Also, if you use just an LED without a transistor or op-amp as a buffer, you'll need a very large capacitor from the bias pin to ground because of the low input resistance to ground of the '602 -- I used 470 uF. This increases the attack time, and is only appropriate for a minimum-components design like the SST.

In the K1 design, I used DC bias gain reduction at both the receive mixer and product detector. But I included current limiting at the RX mixer stage, so that its gain reduction would lag well behind that of the product detector's. The combined AGC range is more than adequate, and by the time the DC bias has been decreased enough to initiate a slight increase in IMD, the S/N ratio is so large that no distortion can be detected. Refer to the K1 schematic.

One final caveat: as the gain of the mixer is reduced, its current drain drops, raising the voltage at pin 8 if the mixer's DC supply is fed through a resistor. Gain reduction will also very slightly change the operating point of the on-chip oscillator/buffer. To avoid frequency-shift problems, don't use the on-chip oscillator of a gain-controlled 602/612 as a VFO or VCXO. In the K1, the on-chip oscillator *is* used at the product detector, but as a low-frequency crystal-controlled BFO with no varactor diodes. It is totally frequency-stable over the full AGC range.

73,
Wayne
N6KR

--

<http://www.elecrafter.com>

Date: Tue, 14 Jan 2003 22:18:32 -0500
From: "brian" <brian@iquest.net>
To: <fpqrp-1@mpna.com>, <qrp-1@Lehigh.EDU>
Subject: [144707] Re: [fpqrp] wap and warc
Message-ID: <001201c2bc44\$c925a240\$d8652bd1@bmurrey2K>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="Windows-1252"
Content-Transfer-Encoding: 7bit

Joel,

The FPCC award is not a contest, but it is a different event than WAP. The FPCC award is issued to any amateur radio operator living within 25 million nautical miles of the Dayton Ramada Inn, that has successfully worked 100 Flying Pig QRP Club International members.

The FPCC award is retroactive back to the beginning days of the club, so if you or anyone has 100 FP's in the log, let me know.

The FPCC Award is a suitable for framing, handsome certificate of

achievement, fit for the wall paper of any self respecting amateur radio operator.

How do I know if I have worked 100 Flying Pigs?

Visit the website at <http://www.fpqrp.com> and check out the pig pens.

I see I have 100 Flying Pigs in the logs, what now?

Easy, send me an email stating the number of Flying Pigs you have worked, and the date that you completed the task. I will create the award certificate and either email it to you so you can print it yourself (FREE), or send me \$1.00 and I'll print it, and mail it to you via USPS. The FPCC Award Manager is Brian Murrey KB9BVN FP#57

To be valid, any Flying Pig contact after December 31, 2002 needs to include the following exchange: DATE RST SPC NAME and FP# - if you don't have a Flying Pig QRP Club International membership number, visit the website and click on the MEMBERSHIP button at the bottom of the page. It's free, there are no meetings, and we have no rules. If you don't want to have a Flying Pig membership number, that's fine too.

If you are a Flying Pig QRP Club International member, you can keep track of your WAP and your FPCC awards on the www.fpqrp.com website ARCHIVES. Once you hit 100 FP contacts in the online logs, I will be notified and will generate your certificate immediately.

The FPCC can be earned on any band, or mixed bands. The only mode that counts is CW Morse Code. No PSK, RTTY, AMTOR, CLOVER, etc etc

FPCC endorsements are available at 200, 300, 400, and 500.

72 es 00

"...what is a Flying Pig anyway? Well a long time ago this QRO guy made the statement that QRP ops will only be successful when pigs fly....looks like we have a lot more Flying Pigs than we thought...QRP, it's a state of mind..."

=====
KB9BVN/QRP - New Whiteland IN - EM69WN
QRP-ARCI #10223 QRP-L #1540 FIST #5695
FISTS CC #764 - Proud Member ARRL
HEATH HW-9 @ 2W or NORCAL 40A @ 1.3W
INTO INFAMOUS AF4PS ATTIC DIPOLE
SOC #400 AND FLYING PIGS QRP #-57

=====

----- Original Message -----

From: <hamjoel@juno.com>

To: <fpqrp-1@mpna.com>; <qrp-1@Lehigh.EDU>

Sent: Tuesday, January 14, 2003 9:47 PM

Subject: [fpqrp] wap and warc

> Was just informed there are prizes for wap... makes it a contest
> not for warc bands...
> sry I did not kneaux about the prizes... as that makes it a
contest cut and dry...
> however iffin anyone wants to swap fp or qrpl or qrparki numbers
just to achieve a personal goal (no contest) ah be happy to swap with
u as that would be in line with the rules and the spirit of the
rules...
> U kneaux it's ban a few days since ah last ate crow... an't that
bad
> once u get used to it... oh well, on to utter things....
> still trying to fit my antenna into the space I have... anyone
want to do one of them computer analysis of a shortened version ah is
thinking about?
> oh, don't aver been afraid to update ur information, it helps get
to the correct understanding of sumthin... even iffin I was
mistaken...
> As I asked... someone showed me whare ah was wrong...and so
quickly too...
> kella joel
>
>
> KE1LA JOEL
> IN MAINE
> FREEZIN
>
>
> -----
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> -To unsubscribe, mail to majordomo@fpqrp.com, msg: unsubscribe
fpqrp-1 -
>
>

Date: Tue, 14 Jan 2003 22:47:10 -0500
From: "brian" <brian@iquest.net>
To: "QRP-L" <qrp-l@Lehigh.EDU>
Subject: [144708] Feb 2003 QST
Message-ID: <003601c2bc48\$c8f594c0\$d8652bd1@bmurrey2K>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

I got my Feb QST on Saturday and have been reading it with the usual fervor. The Hand's on Radio column is great. This month we're building a little amplifier and looking at the traces on the scope.

For my simple mind this is excellent as I now have a month to soak it up and understand it. They're doing a great job.

Also, QRP section talks about the OHR rigs....good job Rich!

73 de KB9BVN

=====
KB9BVN/QRP - New Whiteland IN - EM69WN
QRP-ARCI #10223 QRP-L #1540 FIST #5695
FISTS CC #764 - Proud Member ARRL
HEATH HW-9 @ 2W or NORCAL 40A @ 1.3W
INTO INFAMOUS AF4PS ATTIC DIPOLE
SOC #400 AND FLYING PIGS QRP #-57
=====

Date: Tue, 14 Jan 2003 22:52:33 -0500
From: Brian Short <bshort4@cox.net>
To: Low Discussion <qrp-l@Lehigh.EDU>
Subject: [144709] Stealth Antennas...
Message-ID: <C71886EC-283C-11D7-80FD-00306543B616@cox.net>
Mime-Version: 1.0 (Apple Message framework v551)
Content-Type: text/plain; charset=US-ASCII; format=flowed
Content-Transfer-Encoding: 7bit

<http://wired.com/news/wireless/0,1382,57199,00.html>

--

See my web page: <http://www.k7on.com>

Date: Tue, 14 Jan 2003 21:58:49 -0700
From: "Rod NØRC" <rod@n0rc.us>
To: <hamjoel@juno.com>,
"Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [144710] Re: FP AWARD WARC BANDS
Message-ID: <000b01c2bc52\$cc1825f0\$6501a8c0@BIGDOG>
MIME-Version: 1.0
Content-Type: text/plain;
charset="Windows-1252"
Content-Transfer-Encoding: 7bit

Sorry Joel....

----- Original Message -----

From: <hamjoel@juno.com>
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Sent: Tuesday, January 14, 2003 5:51 PM
Subject: FP AWARD WARC BANDS

> WAP, AS I UNDERSTAND IT ... HAS NO AWARDS, NO COMPETITION
> WITH OTHER PIGGIES OR ANYONE ELSE...
> AND A CERTIFICATE IS OFFERED TO THOSE WHO DO WHAT THE
> CERTIFICATE SAYS.... THIS IS THE SAME AS WAS...WAC ETC...
...
> IN WAP U GET NO PRIZES ONLY A PAPER SAYING U WORKED SO MANY
PIGGIES
> AS W-A-S WOULD SAY U WORKED SO MANY STATES...

Check <http://www.fpqrp.com/wap-2003.html>

It is titled: "FPqrp-L Worked All Pigs Contest for 2003"

And, there are prizes, check the webpage.

73, Rod NØRC

Date: Tue, 14 Jan 2003 23:07:09 -0600
From: "Dave Redfearn" <n4elm@attbi.com>
To: "Low Power Amateur Radio Discussion \((E-mail\)" <grp-1@lehigh.edu>
Subject: [144711] Want: DOA SSTs & Cleaning out excess parts - List
Message-ID: <000201c2bc53\$f54bfae0\$016fa8c0@Pavillion>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Want:

Looking for Dead, broke, "doesn't quite work right" Wilderness Radio SSTs
to seed a homebrew project.
Operative word here is CHEAP.

Trade,Swap,Sell:

Starting to clean out 20+ years of homebrew parts, most gathered in the late
80s for radio projects and never used.
May be useful to repair or complete a project.

Old Radio Shack parts still in original packing:

- 7 - 276-2036 N-channel FET
- 1 - 276-2045 Dual Gate MOSFET 3N211
- 1 - 276-2044 MRF-901
- 2 - 272-1310 3.579545 MHz crystals

Other loose parts:

- 4 - LM 393 op-amps
- 4 - LM 567CH PLL tone decoder (8 pin round case)
- 4 - LM 3900 Norton amp
- 4 - LM7805 TO-220 5 volt regulator
- 4 - LM 7806 TO-220 6 volt regulator
- 4 - LM 7808 TO-220 8 volt regulator
- 10 -2N4288 PNP transistor

- 5 - Bourns 25K 10 turn trimmer pots, vertical
- 2 - 25K 10 turn trimmer pots, horizontal
- 10 - 5K 10 turn trimmer pots, horizontal

- 10 - feed thrus, solder

10 - 3PDT mini toggle switches

3 - Jackson or equivalent 6:1 reduction drives, 1/4" shaft

73 - Dave

=====
Dave Redfearn, ARS N4ELM, McKinney, TX
Email: n4elm@NOJUNKattbi.com (to reply, remove NOJUNK)
QRL? de N4ELM/qrp

Date: Wed, 15 Jan 2003 23:47:51 -0600
From: "Jerry Ford" <benlightnd13@mchsi.com>
To: "qrp-1" <qrp-1@Lehigh.EDU>
Subject: [144712] NB6M mod's for the SMK-1
Message-ID: <00ad01c2bd22\$cfa48a80\$f374da0c@mchsi.com>

Hey folks: here's another question for you on the SMK-1. For
those of you who built this rig way back when and have done any of
Wayne's mods on it!

I'm currently in the middle of Wayne's " Extend the SMK-1's TX and
tuning range " mod. On the 3rd page of his instruction he says
to move C-18 so that it connects to the rear pad of C-18 and the left
pad of C-17. It appears that this is a typo and Wayne is refering to
moving C-20.

My question is:

Will this cap connect between the rear pad of C-20 and the left pad of
C-17? Or will it connect between the rear pad of C-20 and the
left pad of C-18. (which is now vacant because I've already moved
C-18 to the old C-17 pad and the C-17 cap has been removed. per
previous instructions.)

The schematic shows this going between the rear pad of C-20 and the
left pad of C-17 but I wanted to confirm that with those of you who
have been here before.

(don't want to smoke Q-2 when I power it up)

Thanks again folks for any advise:

73 to the group: Jerry N0JRN

ARS # 923, ARCI # 11049, ARRL,
<http://home.mchsi.com/~benlightnd13/>

Date: Tue, 14 Jan 2003 21:33:25 -0800
From: "Richard Johnson" <richard_johnson@credence.com>
To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [144713] 2N3565 data sheet
Message-ID: <3E24F2A5.B2C7E88F@credence.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Mr. Reflector:

I am looking for a data sheet on the 2N3565 NPN low noise transistor.

If any are able please email direct to me.

cheers,
rich

Date: Wed, 15 Jan 2003 01:01:38 -0800
From: "Dave Fifield" <dave@redhotradio.com>
To: "'Low Power Amateur Radio Discussion'" <qrp-l@Lehigh.EDU>
Subject: [144714] RE: SA612 and AGC
Message-ID: <000001c2bc74\$b6ca61a0\$0a00a8c0@AD6A>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="US-ASCII"
Content-Transfer-Encoding: 7bit

Wayne is completely correct. We're all glad he decided to ignore the datasheet! I also used this effect to increase the gain of the SMK-1 front-end (22K to +6V from the pin 2 input, which are DC coupled together by the input tuned circuit's inductor).

In the NorCal 20 design, I measured a total of about 100dB AGC range, about 80dB of which is from the SA612.

If you consider what circuitry is inside the SA612 chip's inputs, it's obvious that this technique works well and is entirely safe (up to a point, of course). The inputs are

long-tailed pairs of transistors (diff-amps).

Regards,
Dave F.
AD6A

Date: Wed, 15 Jan 2003 09:53:25 GMT
From: hamjoel@juno.com
To: fpqrp-1@mpna.com, qrp-1@Lehigh.EDU
Subject: [144715] worked vk4 qrp ssb
Message-ID: <20030115.015415.27064.701993@webmail1.wlv.unttd.com>

well half the antenna is working..
worked vk4sj at 5w ssb this evening
with just the two half waves up...
will try and add the directors tomorrow
lessen it be cold again... oh this is 40 meters
40 seems to be open tonite, this morning...

72
ke1la joel
in maine
taken his warc antennas down... hee hee

KE1LA JOEL
IN MAINE
FREEZIN

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Date: Wed, 15 Jan 2003 05:40:40 -0500
From: "Mike Yetsko" <myetsko@insydesw.com>
To: "Low Power Amateur Radio Discussion" <qrp-1@lehigh.edu>
Subject: [144716] Re: Maxim gets the idea !
Message-ID: <008501c2bc82\$8e71fac0\$0300a8c0@charter.net>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"

Content-Transfer-Encoding: 7bit

> Saw this link on the Piclist:
>
> <http://www.maxim-ic.com/appnotes.cfm/appnote_number/946>
>
> Isn't it mean of the Maxim engineer not to mention the word: Altoids ?
> ;)
>
> Best Regards,
>
> Chuck Olson, WB9KZY

Now, since the author isn't/wasn't mentioned in the app-note, the question becomes "is he one of us?"

Anyone here take credit?

Mike

Date: Wed, 15 Jan 2003 07:18:21 -0500
From: "Bill, N4QA" <n4qa@hotmail.com>
To: qrp-l@Lehigh.EDU
Subject: [144717] 30 meter band is...well...it's OPEN!
Message-ID: <BAY1-F223qJrfP6nmGq0000d521@hotmail.com>
Mime-Version: 1.0
Content-Type: text/plain; format=flowed

At 1100 UTC today, while tuning the DSW-30 around with DSWTUN03, visited 10000.000 KHz for a while and heard IDs from WWV, WWVH, BPM and LOL standard time/freq stations. Guess that qualifies as a band-opening :)
The software is beginning to move a little bit...still have a good ways to go, though...

73.
Bill, N4QA
<http://www.qsl.net/n4qa/>

MSN 8 helps eliminate e-mail viruses. Get 2 months FREE*
<http://join.msn.com/?page=features/virus>

Date: Wed, 15 Jan 2003 04:58:58 -0800
From: "Trevor Jacobs" <kg6cyn@earthlink.net>
To: <jacksonharbor@att.net>,
"Low Power Amateur Radio Discussion" <qrp-1@lehigh.edu>
Subject: [144718] Re: Maxim gets the idea !
Message-ID: <001501c2bc95\$e12dcf60\$5071be3f@earthlink.net>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

...And they say that Amateur Radio no longer contributes to commercial engineering ;-) Neat article Chuck! I wonder if the guy is a ham?

73's Trev KG6CYN

<http://home.earthlink.net/~kg6cyn>

<http://www.qsl.net/kg6cyn>

----- Original Message -----

From: <jacksonharbor@att.net>

To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>

Sent: Tuesday, January 14, 2003 2:41 PM

Subject: Maxim gets the idea !

> Gang -

>

> Saw this link on the Piclist:

>

> <http://www.maxim-ic.com/appnotes.cfm/appnote_number/946>

>

> Isn't it mean of the Maxim engineer not to mention the word: Altoids ? ;)

>

> Best Regards,

>

> Chuck Olson, WB9KZY

> Jackson Harbor Press

> <<http://jacksonharbor.home.att.net/>>

>

Date: Wed, 15 Jan 2003 06:08:16 -0700 (MST)

From: "Karl F. Larsen" <k5di@zianet.com>
To: qrp-1@lehigh.edu
Subject: [144719] FOX: Interesting
Message-ID: <Pine.LNX.4.44.0301150603380.1361-100000@bucket.dog>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

Just got Daves log and see what I heard last Thursday:

0205	K50I	559	OK	Tim	5W
0206	K5DI	559	NM	Karl	5W
0207	W5YR	559	TX	George	5W

We were 1,2,3 and I didn't hear Tim well but George was his loud self. I know Tim just got up a new antenna in his OK home. It seems to work.

--

- Karl Larsen k5di Las Cruces,NM Az ScQRPions -

Date: Wed, 15 Jan 2003 07:10:16 -0600
From: "David Bixler" <qrp@netins.net>
To: "'Low Power Amateur Radio Discussion'" <qrp-1@Lehigh.EDU>
Subject: [144720] Four State QRP Group Wednesday warble
Message-ID: <000001c2bc97\$72a82160\$e915b9cc@Host>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Hello gang:

Tonight at 9 PM central time, the Four State QRP Group has our weekly Wednesday Warble on 3580.5 KHz PSK-31 mode. All QRP'ers are welcome to join our informal roundtable chat.

We have been having a nice turnout and very good propagation the last few weeks. Time to dust off those Warblers (or any other PSK capable rig) and join the roundtable. Nothing formal, just some fun with QRP.

72, Dave

David Bixler W0CH
Seneca, Missouri

QRP: Little radios, Big Fun!

QRP Web Site: <http://w0ch.com>
Four State QRP Group: <http://w0ch.com/fsqrp>

Date: Wed, 15 Jan 2003 13:14:32 +0000
From: k4vib@att.net
To: qrp-l@Lehigh.EDU
Subject: [144721] SA602AN output
Message-ID: <20030115131432.DHRF20003.mtiwmhc13.worldnet.att.net@mtiwebc08>

Does anyone know the output (in milliwatts) of the SA602AN used as a transmit mixer?

Thanks,

Bill
K4VIB

Date: Wed, 15 Jan 2003 07:28:19 -0600
From: "David Bixler" <qrp@netins.net>
To: "'Low Power Amateur Radio Discussion'" <qrp-l@Lehigh.EDU>
Subject: [144722] Four State QRP Group Get-together Saturday
Message-ID: <000001c2bc99\$f8a55c40\$e915b9cc@Host>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Hi Gang:

This upcoming Saturday, January 18th, the Four State QRP Group is having our monthly luncheon get-together at the Redings Mill Inn, south of Joplin, Missouri. We have lunch at 11:00 AM central time.

Note that this is new meeting location this month. The Redings Mill Inn is located on route 86, one mile south of Interstate 44 exit 6 on the south end of the Shoal Creek Bridge.

If you have never been to one of our get-togethers, we just have lunch and some fun with QRP and homebrewing. No boring business meeting, no

speakers, just fun. Check out our web site for driving directions and photo reports of past meetings.

See you Saturday, gonna be fun!

72, Dave W0CH

Four State QRP Group: No Rules, No Agenda - Just Fun!

Four State QRP Group: <http://w0ch.com/fsqrp>

Date: Wed, 15 Jan 2003 08:54:07 -0500
From: David Hinerman <WD8CIV@worldnet.att.net>
To: qrp-l@lehigh.edu
Subject: [144723] Re: Feb 2003 QST
Message-ID: <5.1.1.6.1.20030115084921.00a6bec0@ipostoffice.worldnet.att.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"; format=flowed

At 10:47 PM 1/14/2003 -0500, you wrote:

>I got my Feb QST on Saturday and have been reading it with the usual
>fervor. The Hand's on Radio column is great. This month we're
>building a little amplifier and looking at the traces on the scope.
>
>For my simple mind this is excellent as I now have a month to soak it
>up and understand it. They're doing a great job.
>
>Also, QRP section talks about the OHR rigs....good job Rich!

Brian,

Note also Ed Hare's mug shot on p. 12, and Alan Kaul's fine account of
contesting on a ski vacation on p. 53.

It's a QRP world after all.

Dave

Dave Hinerman
WD8CIV@worldnet.att.net

Date: Wed, 15 Jan 2003 09:21:01 -0500

From: "Franco, Nicholas J" <franco@bnl.gov>
To: "'qrp-l@lehigh.edu'" <qrp-l@lehigh.edu>
Subject: [144724] TT2 Blunder - resolved
Message-ID: <D869CC4782D3D41182CB0002B30A362B80AF6E@exchange01.bnl.gov>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"

Thanks to all from QRP-L. I received several replies, both on the list and direct. Several immediately pointed me to the N4UY modification using a 2n3906 to switch the key circuit. I made that mod and everything is working fine.

I did receive another approach that caused me to think a little more. Lew, N5ZE warns of the 200mA max collector current for a 2n3906 and states that if my TT2 runs more than 500mW it could overload this parameter. My TT2 does run more than 500mW for some reason. I may redo the mod using his 2n4403 mod. I'll attach his reply below in case anyone else would like to use this mod.

Thanks for all the input and friendly advice.
73 to all,

Nick - kf2p . .

Let's encourage Lew to build up his TT2 and get it on the air. Maybe we could have a TT2 event in a couple of weeks or so :-)

Lew - N5ZE writes ...

Scrounge up a 2n4403 PNP transistor (a 2n2907 would be fine too) and a 1/4 watt 1K ohm resistor. With the flat side of the transistor (2n4403) facing you and the legs pointed down, the transistor emitter is on the left, the base is in the middle and collector is on the right. Wire the +12V (hot to power supply) side of the TT2 key input to the 2n4403 emitter and the resistor to the 2n4403 base. The collector is wired to the other side of TT2 key input which is connected to the power supply rail on the circuit board. The keyer output should be wired between the as yet unconnected lead of the base resistor and ground. This mod can be implemented completely external to the TT2 on a small perf board so no surgery to your TT2 is required. Just remember to connect the keyer ground output to the TT2 ground.

In poor ASCII art (the 2n4403 looks like a FET - sorry!):

```

TT2 Key line + 12V
-----|
      |
      | \ (emitter)
      | >|      1K ohm
2n4403 | ----/\ /\ /\ /\ /--|
      | /-|      | |-----Keyer output
      | | (collector)
-----|
TT2 Key line PS Rail
      | |-----Keyer ground
      | |
TT2 Ground  ---
            ---
            -

```

This keying mod does cause a drop of <1V across the 2n4403 and wastes 10+mA or so of base current. The advantage is that it is less expensive and quieter than a relay.

Let me know if you have a problem. Hope this helps es GL!

72/73,
 Lew
 N5ZE

PS - Some people have used 2n3906s in similiar circuits. The 2n3906 has a max collector current of 200 mA which could be exceeded by a TT2 running at >.5W. As a result I recommend the 2n4403.

--
 Nicholas J. Franco <>> Brookhaven National Laboratory
 Sr. Applications Engineer Collider-Accelerator Department
 Tel: 631-344-5467 Fax: 631-344-2833 <mailto:franco@bnl.gov>

 Date: Wed, 15 Jan 2003 09:31:12 -0500
 From: "Ed Kessler" <aa3sj@arrl.net>
 To: qrp-1@Lehigh.EDU
 Subject: [144725] FS K1-4 Band + KAT1
 Message-ID: <3E252A60.23238.3B88B6A@localhost>
 MIME-Version: 1.0
 Content-type: text/plain; charset=US-ASCII
 Content-transfer-encoding: 7BIT

Content-description: Mail message body

Good Morning,

I have a K1 for sale.

Condition: LNIB (works perfectly)

Includes: Manual, and internal KAT1 Auto Tuner.

Presently set up for 40m, 30m, 20m, 15m.

Set up for 80kHz tuning range.

Asking \$425 plus \$8.00 shipping.

73

Ed AA3SJ

Ed Kessler

950 Woodside Station Road

Millersburg, PA 17061

Date: Wed, 15 Jan 2003 08:41:30 -0600

From: "Don Foster" <k5kw@geotec.net>

To: <qrp-1@Lehigh.EDU>

Subject: [144726] Re: Old-style silver mica wanted

Message-ID: <001501c2bca4\$31bca420\$8e3682ac@aoldsl.net>

MIME-Version: 1.0

Content-Type: text/plain;
charset="iso-8859-1"

Content-Transfer-Encoding: 7bit

Howard, K2UD:

I believe I have what you need. It's an old style silver mica capacitor (red), rectangular in shape, that measures 467 pf on an AADE IIB meter. Should be close enough.

Your mailing address?

Don, K5KW

lurking in old Fort Gibson, oldest town in Oklahoma

Date: Tue, 14 Jan 2003 21:44:46 -0800
From: "Chuck Adams, K7Q0" <k7qo@earthlink.net>
To: qrp-l@lehigh.edu
Subject: [144727] Wanted: KC2 manual
Message-ID: <5.1.1.6.0.20030114214344.01c9f6e8@pop.earthlink.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"; format=flowed

I have been looking for months through all the papers and schematics and I can not find this manual. If some one would be so kind as to scan and email I'd appreciate it. Project has been too long in the works.

dit dit es tnx,

Chuck Adams, K7Q0
<http://www.qsl.net/k7qo> and <http://www.earthlink.net/~k7qo>

Moving to Arizona? ---- Please bring your own water.

Date: Wed, 15 Jan 2003 11:36:33 -0500
From: "Steve Lawrence" <Steve.Lawrence@ITWFEG.COM>
To: qrp-l@Lehigh.EDU
Subject: [144728] Re: Feb 2003 QST
Message-ID: <0FE93A6401.7E2FA5FE-0N85256CAF.005B197B-85256CAF.005B3CB8@itwfeg.com>
MIME-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Anyone note the Yaesu ad for the FT-857? (Feb QST, inside back cover).

Any hard information available yet for this radio? A Google search yields very little...

73,
Steve
aa8af

Date: Wed, 15 Jan 2003 09:42:33 -0700
From: William R Colbert <w5xe@juno.com>

To: qrp-l@lehigh.edu
Subject: [144729] list appearance
Message-ID: <20030115.094235.-274691.3.w5xe@juno.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

List postings 14/0103- 3 commenting about
solar panel and battery sites - appearances 0

guess I'm filtered out. Oh well. At this point
in time, I am better off to pursue more interesting
and less stressful portions of the hobby. I will
certainly miss most of the postings and posters
that have contributed considerably - some not
at all.

73

Ray

"The more I see of the representatives of the people,
the more I admire my dogs." letter from Count d'Orsay
Ray Colbert, W5XE, 00TC#3618, SOWP#1064M NARTE-NCT2R
FP# 111, SOC#78, ARCI 5784, El Paso, (FAR WEST) TEXAS

Date: Wed, 15 Jan 2003 08:46:27 -0800
From: "N4LGH" <n4lgh@waveguide.us>
To: "QRP-L" <qrp-l@lehigh.edu>
Subject: [144730] RE: Practical Joke on a Ham
Message-ID: <GNEOLGDJDOPEALHJMKLCKEJKDFAA.n4lgh@waveguide.us>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Thanks for all the comments and laughs with the practical joke.

Yes, I really did that.

Yes, it's one of the ones I'll admit to.

Who knows if something like that will happen to you ;]
Tracy N4LGH

Date: Wed, 15 Jan 2003 16:55:55 GMT
From: hamjoel@juno.com
To: fpqrp-1@mpna.com, qrp-1@Lehigh.EDU
Subject: [144731] WELL
Message-ID: <20030115.085620.10255.709065@webmail3.wlv.unttd.com>

WELL

It s me again margarett

I spent some couch time with the fp shrink today
and discussed me getten a life and the warc bands

He suggsted me getten meaux air time and leaving the warc bands alone for
now...

And I think he s still writing down what we need to work on... geeeeeezzzzzz

I think ah puzzled the shrink about my new antenna and the cold wx... I ll
take his advice and shrink the antenna.... course, after his last ranting on
wap... i have reservations..

Kinda reminds me of the time I stepped on some ice and found my foots up even
with my eyeballs and me on final approach with the ground (now 5 foots lower
than me).... u kneaux it s the hang time that gets to ya ... with all that might
happen real soon going thru the mind... specially when ur landing gear just came
up..

Which brings me back to the antenna... what do ya do when the rope jumps ur
pulley and u can t lower the pully down? Or when ur dowel rod hangs up in the tree
and breaks in half and won t let u pull ur rope down from ur favorite tree soes u
can puts up a new antenna... or the wx gets too cold to do what u gotta do to got
u-self finished with it all....

Thair do be advantages to kit building....

Think I ll geaux work some 40mtr cw now, getten tired sitten in front of this
mirror talkin
to my self....

Ke1la joel
fp shrink
in maine
freezin and then some

KE1LA JOEL
IN MAINE
FREEZIN

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Date: Wed, 15 Jan 2003 11:54:21 -0800
From: "Dave Benson" <nn1g@earthlink.net>
To: <WD8CIV@worldnet.att.net>,
"Low Power Amateur Radio Discussion" <qrp-l@lehigh.edu>
Subject: [144732] Re: Feb 2003 QST
Message-ID: <000401c2bccf\$e6deabc0\$a94d3b41@pavilion>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

also p.19- Ken Hopper, N9VV, is a QRPer as well. :-)

Dave- K1SWL

Date: Wed, 15 Jan 2003 10:01:41 -0700
From: "Gary & Jean Hanson" <hansongr@uts.cc.utexas.edu>
To: <qrp-l@Lehigh.EDU>
Subject: [144733] QRP in Norway
Message-ID: <NGBBKJLE0LBNDJ0LODIFIEKPCAAA.hansongr@uts.cc.utexas.edu>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Hi gang,

Could someone contact me off list and give me some guidance about operating for a few weeks in Norway this summer. Who would I need to contact in Norway to get a temporary license?

Thanks for the help,

Gary, KJ5VW

Date: Wed, 15 Jan 2003 09:19:56 -0800
From: "Bob Tellefsen" <n6wg@earthlink.net>
To: <qrp-l@lehigh.edu>
Subject: [144734] Re: Harbor Freight Solar panel

Message-ID: <MABBJOEABOILMKCJCLFCKEGLDPAA.n6wg@earthlink.net>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Jim

Thanks for the data on the HF solar panels.
I have four that I used in parallel during Field Day last year
to keep my battery up in the heat of battle.
Wound up with more charge in the battery than when
I started :-)
Worked very well for me.
73, Bob N6WG

Date: Wed, 15 Jan 2003 11:25:45 -0600
From: "Jim N0UR" <n0ur@attbi.com>
To: "QRP-L" <qrp-l@lehigh.edu>
Subject: [144735] FOX: N0UR's turn
Message-ID: <000a01c2bcbb\$27723ea0\$6a202942@ce1.client2.attbi.com>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Just a reminder that I will be one of the foxii this week. Look for ET's
posting on who will be where.

If I am not able to make it back in town I have arranged for the very
capable K0PC to sit in for me. So if you here Pat calling CQ FOX you will
know I did not make it.

Thanks es GL

Jim

Date: Wed, 15 Jan 2003 11:38:51 -0600
From: "Mark Andrews" <KE4IOF@KE4IOF.com>
To: <hansongr@uts.cc.utexas.edu>,
"Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [144736] Re: QRP in Norway
Message-ID: <014801c2bcbc\$f8856340\$b16e640a@vitalworks.com>
MIME-Version: 1.0

Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Gary,

I'm going to reply to the list, because I think this to be useful information for all of us. According to the ARRL, Norway is a CEPT country therefore no special permit is needed to operate provided you meet certain conditions (I'm sure you meet them already). Here is the link to the ARRL page - <http://www.arrl.org/FandES/field/regulations/io/> so you can peruse the documentation.

BTW, the moderation of the list is working very well!

Mark A. Andrews

"You can't reason a person out of a position that the person wasn't reasoned into in the first place"

----- Original Message -----

From: "Gary & Jean Hanson" <hansongr@uts.cc.utexas.edu>
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Sent: Wednesday, January 15, 2003 11:01 AM
Subject: QRP in Norway

> Hi gang,
>
> Could someone contact me off list and give me some guidance about
operating
> for a few weeks in Norway this summer. Who would I need to contact in
> Norway to get a temporary license?
>
> Thanks for the help,
>
> Gary, KJ5VW

Date: Wed, 15 Jan 2003 12:25:10 -0600
From: Karl Kanalz <kkanalz@gcecis.com>
To: "'hamjoel@juno.com'" <hamjoel@juno.com>,
Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [144737] RE: wap and warc, And Eating Crow
Message-ID: <01C2BC91.C7E74EE0@KKANALZ>

Hi, Joel!

With enough salt, Louisiana "hot sauce" and a piece of cornbread on the side, it's possible to eat most anything, including "crow" !!

Karl K - W8TIF
McKinney, Texas

-----Original Message-----

From: hamjoel@juno.com [SMTP:hamjoel@juno.com]
Sent: Tuesday, January 14, 2003 8:48 PM
To: Low Power Amateur Radio Discussion
Subject: wap and warc

<snip>

U kneaux it's ban a few days since ah last ate crow... an't that bad
once u get used to it... oh well, on to utter things....<snip>

KE1LA JOEL
IN MAINE
FREEZIN

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End of QRP-L Digest 2801

